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1: *Radiat Environ Biophys* 1975 Dec 4;12(4):271-80

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Fixation, retention and exhalation of carrier-free ¹¹C-labeled carbon monoxide by man.

Weinreich R, Ritzl F, Feinendegen LE, Schnippering HG, Stocklin G

Carrier-free ¹¹C-labeled carbon monoxide was produced by proton irradiation of a nitrogen gas flow target via the $^{14}\text{N}(\text{p}, \alpha)^{11}\text{C}$ process followed by on-line reduction of the predominantly formed ¹¹C-carbon dioxide with a yield of 0.4 mCi/muAmin. After appropriate quality control about 2 mCi of carrier-free ¹¹C-carbon monoxide in 500 ml of nitrogen gas were inhaled by test subjects in one breath. The ¹¹C-activity distribution was then followed *in vivo* by scanning above thorax, head, liver, thigh and os sacrum; simultaneously the ¹¹C-activity of the blood was also followed by batch measurement. The data indicate that part of the ¹¹C-activity migrates from the blood into the intercellular space, while another part is exhaled. The ¹¹C-activity leaves the individual organs with a biological half-life ranging from about 120 to 200 min, a time which is short as compared to the one observed for ⁵¹Cr-labeled erythrocytes. A radio gas chromatographic analysis of the exhaled air showed that the ¹¹C-activity leaves the body exclusively in the form of ¹¹C-labeled carbon monoxide. Consequently, metabolism of the ¹¹CO into ¹¹CO₂ or other compounds can be excluded.

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Abstract

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